

WHAT IS CLAIMED IS:

1. A communication system comprising employing HTTP as a transfer protocol; writing required provision-request documents and provision-response documents in XML syntax; enabling a VoIP device to communicate with a provisioning server of an ITSP in a connection over the Internet, retrieving setting parameters required by the VoIP device from a user database of the provisioning server, and automatically configuring the VoIP.
2. The communication system of claim 1, wherein in response to activating the VoIP device, the VoIP device uses the HTTP as a transfer protocol to issue a provision-request package and send the same to the provisioning server over the Internet so that the provisioning server verifies the identification of the provision-request package in response to receiving the provision-request package, and if the verification is true, reads parameters from the user database of the provisioning server required to configure the VoIP device, stores the configuration parameters in a provision-response package, and sends the provision-response package back to the VoIP device, and the VoIP device performs a configuration on itself based on the sent back configuration parameters in response to receiving the provision-response package.
3. The communication system of claim 2, wherein after finishing the configuration, registration and related processing with respect to the VoIP device are done by a call agent of the ITSP.
4. The communication system of claim 3, wherein a document of the provision-request package is hypertext written in GET request commands of HTTP and XML syntax, and contents of the document of the provision-request package comprises:

request means for representing the document being a provision-request;

header means for storing general information including XML versions, product descriptions, and customer numbers;

message body means for representing main contents of information; and

device information means for storing information including serial numbers, MAC addresses, and IP addresses related to identify the VoIP device.

5. The communication system of claim 3, wherein a document of the provision-response package is hypertext written in GET request commands of HTTP and XML syntax, and contents of the document of the provision-response package comprises:

request means for representing the document being a provision-request;

header means for storing general information including XML versions, product descriptions, and customer numbers;

- 10 message body means for representing main contents of information; and

device information means for storing information including serial numbers, MAC addresses, and IP addresses related to identify the VoIP device.

6. The communication system of claim 5, wherein the contents of the document of the provision-response package further comprises:

- 15 domain means for representing a service scope;

means for representing an address of the call agent, the address being either an IP address or FQDN;

means for representing a communication port of the call agent; and

means for representing a name of the VoIP device.

- 20 7. The communication system of claim 6, wherein the contents of the document of the provision-response package further comprises:

means for representing an address of FTP, TFTP, or HTTP server, the address being either an IP address or FQDN; and

means for representing a name of a firmware file of the server.